

**PLASTICIZER OR FLEXIBILIZER FOR POLYMER AND THERMOPLASTIC
POLYMER COMPOSITION**

Patent number: JP8217820
Publication date: 1996-08-27
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Classification:
- international: **C08F8/16; C08F216/06; C08L29/04; C08L101/12;
C08F8/00; C08F216/00; C08L29/00; C08L101/00;
(IPC1-7): C08F216/06; C08F8/16; C08L29/04;
C08L101/12**
- european:
Application number: JP19950051959 19950216
Priority number(s): JP19950051959 19950216

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Abstract of JP8217820

PURPOSE: To obtain at a low cost a plasticizer or a softener for polymers, consisting of a specific lactone-modified PVA, free from fuming, bleedout, etc., in molding operations, excellent in compatibility with polymers and suitable for improving the molding processability and softness of polymers.

CONSTITUTION: This plasticizer or softener comprises a lactone-modified PVA of the formula ($R<1>$ is a 2-10 C alkylene; $R<2>$ is H or acetyl; n is an average number of mols of added lactone ranging from 1 to 10; X , Y , and Z are each molar composition percentage, being 5 to 90, 0 to 30, and 10 to 95, respectively, and $X+Y+Z=100$; The constitutive components, the molar compositions of which are represented by X , Y and Z , are randomly bonded). The lactone-modified PVA of the formula is obtained, for example, by melt kneading 5 to 90 pts.wt. of (A) PVA, 10 to 95 pts.wt. of (B) lactone monomer, and 0.001 to 0.1 pts.wt. of a polymerization catalyst, under the conditions that (A+B) totals 100 pts.wt. and the temperature thereof is 50 to 250 deg.C.

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